

Ingrid J. Daubar

CURRICULUM VITAE

Contact Information

Jet Propulsion Laboratory
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Education

Doctor of Philosophy, Planetary Sciences
University of Arizona, August 2014

Dissertation: New Dated Craters On Mars And The Moon: Studies Of The Freshest Craters In The Solar System

Master's of Science, Planetary Sciences
University of Arizona, August 2002. (GPA: 3.8)
Thesis: *Northwest Africa 482: A Lunar Meteorite from the Highlands*

Bachelor of Arts, Astronomy
Cornell University, May 1999. (GPA: 3.4)

Honors and Awards

- NASA Postdoctoral Program Fellowship, 2014-2015
- Wiley-Blackwell Award, 2014
- Nininger Meteorite Award, 2014
- 77th Meteoritical Society Stipend travel grant, 2014
- Uwingu Graduate Student Travel Grant, 2014
- Eighth Mars International Conference Student Travel Grant, 2014
- Emily Krauz Staff Endowment Fund Scholarship, 2014
- Graduate & Professional Student Council Travel Grant, 2013
- Runner-up, best graduate student talk, Lunar & Planetary Laboratory Conference, 2012
- Shandor Education Plus Fund travel award, 2012
- University of Arizona College of Science Galileo Circle Scholar, 2011
- Group Achievement Award, MRO HiRISE Science Team, 2011
- University of Arizona College of Science Graduate Student Award for Outstanding Service/Outreach, 2011
- College of Science Staff Advisory Council Professional Development Grant, 2009
- University of Arizona College of Science Staff Recognition Award of Excellence, 2008
- Lunar & Planetary Laboratory Career Staff Excellence Award, 2008
- Lunar & Planetary Laboratory Honorable Mention Award of Excellence, 2007
- University of Arizona Graduate Registration Fellowship, 2000-2001
- Graduate Teaching Excellence Award, Spring 2000

Mission Experience

2014-current: *InSight* mission

Matthew Golombek, In-Sight Co-I: Geology and Landing Site Lead

- Landing site certification and safety assessment
- Instrument Site Selection Working Group
- Impact detection and localization
- Co-Lead for the Impacts Science Theme Working Group

2005-2013: Uplink operations for the HiRISE camera on MRO

Alfred McEwen, Principal Investigator

- Targeted, planned, and commanded 7,000+ high-resolution observations of Mars.
- Supervised uplink group consisting of seven Targeting Specialists.
- Contributed to camera calibration, software development, and operational procedures development.
- Assisted with special sequence commanding and instrument engineering activities.
- Participated in outreach efforts such as public talks on a volunteer basis.

2013: NASA Planetary Summer School

Principal Investigator role

- Designed a mission concept from scratch working with Team X, a concurrent engineering team at the NASA Jet Propulsion Laboratory.
- Successfully presented mission proposal to a panel of experts.
- Mission for Uranus Science and Exploration (MUSE) presented at OPAG and LPSC; paper summarizing lessons learned for future mission design in preparation.

Research Experience

2015-current: Research Scientist

Jet Propulsion Laboratory, California Institute of Technology

- Current cratering on Mars: geospatial characteristics of new impacts, cratering chronology, seismic detectability of impacts
- InSight science and operations
- Albedo effects around landed missions
- Secondary cratering statistics and chronology issues

2014-2015: NASA Postdoctoral Fellow

Jet Propulsion Laboratory, California Institute of Technology

Dr. Matthew Golombek, Senior Research Scientist

- Current cratering on Mars: seasonal variability of impact rates, seismic detectability of impacts, small crater morphology
- InSight landing site assessment and operations
- Albedo effects around new impacts

2009-2014: Research Assistant

Department of Planetary Sciences, University of Arizona

Dr. Alfred McEwen, Professor of Planetary Geology

- Morphology and statistics of small recent craters on Mars and the Moon
- Implications for current cratering rates, planetary chronologies, target material properties, and modification rates

1999-2002: Research Assistant

Department of Planetary Sciences, University of Arizona

Dr. David Kring, Associate Professor of Planetary Geology and Cosmochemistry

- Thermal modeling of impact-induced hydrothermal systems.
- Petrology and mineralogy of shocked meteorites and samples from terrestrial craters.
- Classification of new meteorites, including mesosiderites, chondrites, and a lunar meteorite.

1998-1999: Research Assistant

Department of Astronomy, Cornell University
Dr. Joseph Veverka, Professor of Astronomy

- Catalogued instances of dark streaks in MOC images of the Martian surface.

Summer 1998: Undergraduate Summer Internship

Arecibo Observatory, National Astronomy and Ionosphere Center
Dr. Michael Nolan, Planetary Radar

- Participated in the first radar observations performed with upgraded system.
- Observations of many types of objects, including NEAs, comets, and Mercury.
- Analyzed observations to determine physical properties of targets.
- Studied broadband radio continuum spectra and variability of OH/IR stars.

1997-1998: Research Assistant

Department of Astronomy, Cornell University
Dr. Joseph Burns, Professor of Astronomy and Irving Porter Church Professor of Engineering

- Analyzed images of the Jovian ring system taken by the Galileo spacecraft.

Teaching and Mentoring

- *Mentor to JPL Interns, 2014-2015:* Colin Bloom, Elizabeth Bondi, Ronald Domholdt, Claire Schwartz, Michelle Wray, April Davis
- *Space Grant Mentor, 2009-2010:* student Stephanie Craig
- *Undergraduate student employee supervisor, 2009-2013:* students Amber Keske, George Amaya, and Eric Sahr
- *Teaching Assistant positions:*
 - 1999, Natural Science 101: Evolution of a Habitable World, Prof. Jonathan Lunine
 - 2000, Planetary Sciences 206: Golden Age of Planetary Exploration, Prof. Uwe Fink
 - 2002, Planetary Sciences 206: Golden Age of Planetary Exploration, Prof. Michael Drake

Field Experience

2011 August, Meteor Crater, Arizona - Ground-penetrating radar studies of subsurface ejecta blocks. P.I.: P. Russell, Smithsonian-CEPS.

1999-2013, Various locations. Planetary Geology Field Studies - departmental field practicum course, taken nine times in locations throughout the southwestern US.

Professional Training

- Cost Effective Space Mission Operations (JPL), 2015
- JPL Science Mission Interface (SMI) Workshop, 2015
- University of Arizona Successful Supervisor Series, 2009
- University Leadership Institute, University of Arizona, 2008
- 360° Management Development Assessment, University of Arizona, 2008

Professional Memberships

- American Astronomical Society, Division of Planetary Sciences
- American Geophysical Union
- The Planetary Society
- Association of Women in Science
- Meteoritical Society
- Geological Society of America, Planetary Geology Division

Community Service

- Organizer of the Mars Forum biweekly JPL seminar series
- Communications Chair for the Caltech Postdoctoral Association
- Public Outreach: Numerous talks, tours, and events presenting HiRISE and Mars science to the local Tucson community
- Served on proposal review panels for Mars Data Analysis Program, both on panel and as external reviewer
- Peer reviewer for journal articles (seven in the last three years)
- LPL Alumni Association Liaison
- Co-organizer of Women at LPL group
- Judge for Dwornik Student Award, Planetary Geology Division of the Geological Society of America
- Judge for UA Graduate and Professional Student Council Travel Grant Awards
- Contributor, Encyclopedia of Planetary Landforms (Henrik Hargitai and Akos Keresztsuri, eds.)

Research Grants

2011 - *Mars Data Analysis Program*: "Martian Surface Structure and Age from Impact Crater Analysis." Collaborator with P.I. G. Bart, U. Idaho.

2013 - *University of Arizona Commission on the Status of Women*: Mini Grant for Lunar and Planetary Laboratory Women.
Co-Proposer with K. Block, U. Arizona.

2013 - *Mars Fundamental Research Program*: "Utilizing Morphometric Properties of Craters to Characterize the Seismological Signature of Recent Impact Events on Mars"
Co-Investigator with P.I. N. Schmerr, U. Maryland.

2014 - *NASA Postdoctoral Program Research Fellowship*: "Seasonal Variation in the Martian Impact Rate"
Research Advisor M. Golombek, JPL.

Peer-Reviewed Publications

Daubar, I. J., C. M. Dundas, S. Byrne, P. Geissler, G. Bart, A. S. McEwen, P. S. Russell, and M. Chojnacki (2015) Changes in Blast Zone Albedo Patterns Around New Martian Impact Craters. *Icarus*, accepted.

Daubar, I. J., S. J. Saikia, M. J. Poston, M. Bruck Syal, M. Bunte, C. Cook-Hallett, E. Decrossas, A. Dove, D. Farnocchia, E. Jens, J. Jonsson, J. M. Mihaly, A. Ollila, M. C. Palucis, G. Vardaxis, M. S. Veto, C. Budney, K. Mitchell, and G. Orton (2015, submitted) Mission for Uranus Science and Exploration (MUSE): A NASA Planetary Science Summer School Enhanced New Frontiers Conceptual Mission Design. *Planetary and Space Science*, submitted.

Keske, A. L., C. W. Hamilton, A. S. McEwen, and **I. J. Daubar** (2015) Episodes of fluvial and volcanic activity in Mangala Valles, Mars. *Icarus* 245, 333-347. doi:10.1016/j.icarus.2014.09.040

Daubar, I. J., C. Atwood-Stone, S. Byrne, A. S. McEwen, and P. S. Russell (2014) The morphology of small fresh craters on Mars and the Moon. *Journal of Geophysical Research (Planets)* 119, 2320-2639. DOI: 10.1002/2014JE004671.

Dundas, C. M., S. Byrne, A. S. McEwen, M. T. Mellon, M. R. Kennedy, **I. J. Daubar**, and L. Saper (2014) HiRISE Observations of New Impact Craters Exposing Martian Ground Ice. *Journal of Geophysical Research* 119, 109-127. DOI: 10.1002/2013JE004482.

Daubar, I. J., A. S. McEwen, S. Byrne, M. R. Kennedy, and B. Ivanov (2013) The current martian cratering rate. *Icarus* 225, 506-516. DOI: 10.1016/j.icarus.2013.4.9.

Russell, P. S., J. A. Grant, K. K. Williams, L. M. Carter, W. Brent Garry, and **I. J. Daubar** (2013) Ground penetrating radar geologic field studies of the ejecta of Barringer Meteorite Crater, Arizona, as a planetary analog. Journal of Geophysical Research (Planets) 118, 1915-1933. DOI: 10.1002/jgre.20145

Oberst, J., A. Christou, R. Suggs, D. Moser, **I. J. Daubar**, A. S. McEwen, M. Burchell, T. Kawamura, H. Hiesinger, K. Wünnemann, R. Wagner, and M. S. Robinson (2012) The present-day flux of large meteoroids on the lunar surface—A synthesis of models and observational techniques. Planetary and Space Science 74, 179-193. DOI: 10.1016/j.pss.2012.10.5.

Burleigh, K. J., H. J. Melosh, L. L. Tornabene, B. Ivanov, A. S. McEwen, and **I. J. Daubar** (2012) Impact airblast triggers dust avalanches on Mars. Icarus 217, 194-201. DOI: 10.1016/j.icarus.2011.10.26.

Tampari, L. K., D. Bass, B. Cantor, **I. Daubar**, C. Dickinson, D. Fisher, K. Fujii, H. P. Gunlaugsson, T. L. Hudson, D. Kass, A. Kleinböhl, L. Komguem, M. T. Lemmon, M. Mellon, J. Moores, A. Pankine, J. Pathak, M. Searls, F. Seelos, M. D. Smith, S. Smrekar, P. Taylor, C. Holstein-Rathlou, W. Weng, J. Whiteway, and M. Wolff (2010) Phoenix and MRO coordinated atmospheric measurements. Journal of Geophysical Research (Planets) 115, 0. DOI: 10.1029/2009JE003415

McEwen, A. S., M. E. Banks, N. Baugh, K. Becker, A. Boyd, J. W. Bergstrom, R. A. Beyer, E. Bortolini, N. T. Bridges, S. Byrne, B. Castalia, F. C. Chuang, L. S. Crumpler, **I. Daubar**, A. K. Davatzes, D. G. Deardorff, A. DeJong, W. Alan Delamere, E. N. Dobrea, C. M. Dundas, E. M. Eliason, Y. Espinoza, A. Fennema, K. E. Fishbaugh, T. Forrester, P. E. Geissler, J. A. Grant, J. L. Griffes, J. P. Grotzinger, V. C. Gulick, C. J. Hansen, K. E. Herkenhoff, R. Heyd, W. L. Jaeger, D. Jones, B. Kanefsky, L. Keszthelyi, R. King, R. L. Kirk, K. J. Kolb, J. Lasco, A. Lefort, R. Leis, K. W. Lewis, S. Martinez-Alonso, S. Mattson, G. McArthur, M. T. Mellon, J. M. Metz, M. P. Milazzo, R. E. Milliken, T. Motazedian, C. H. Okubo, A. Ortiz, A. J. Philippoff, J. Plassmann, A. Polit, P. S. Russell, C. Schaller, M. L. Searls, T. Spriggs, S. W. Squyres, S. Tarr, N. Thomas, B. J. Thomson, L. L. Tornabene, C. Van Houten, C. Verba, C. M. Weitz, and J. J. Wray (2010) The High Resolution Imaging Science Experiment (HiRISE) during MRO's Primary Science Phase (PSP). Icarus 205, 2-37. DOI: 10.1016/j.icarus.2009.04.023

Byrne, S., C. M. Dundas, M. R. Kennedy, M. T. Mellon, A. S. McEwen, S. C. Cull, **I. J. Daubar**, D. E. Shean, K. D. Seelos, S. L. Murchie, B. A. Cantor, R. E. Arvidson, K. S. Edgett, A. Reufer, N. Thomas, T. N. Harrison, L. V. Posiolova, and F. P. Seelos (2009) Distribution of Mid-Latitude Ground Ice on Mars from New Impact Craters. Science 325, 1674. DOI: 10.1126/science.1175307

Russell, P., N. Thomas, S. Byrne, K. Herkenhoff, K. Fishbaugh, N. Bridges, C. Okubo, M. Milazzo, **I. Daubar**, C. Hansen, and A. McEwen (2008) Seasonally active frost-dust avalanches on a north polar scarp of Mars captured by HiRISE. Geophysical Research Letters 35, 23204. DOI: 10.1029/2008GL035790

Daubar, I. J., D. A. Kring, T. D. Swindle, and A. J. T. Jull (2002) Northwest Africa 482: A crystalline impact-melt breccia from the lunar highlands. Meteoritics and Planetary Science 37, 1797-1813. DOI: 10.1111/j.1945-5100.2002.tb01164.x .

Lewis, B. M., B. D. Oppenheimer, and **I. J. Daubar** (2001) The Approaching Death of the OH/IR star IRAS 18455+0448. The Astrophysical Journal 548, L77-L80. DOI: 10.1086/318918

Ockert-Bell, M. E., J. A. Burns, **I. J. Daubar**, P. C. Thomas, J. Veverka, M. J. S. Belton, and K. P. Klaasen (1999) The Structure of Jupiter's Ring System as Revealed by the Galileo Imaging Experiment. Icarus 138, 188-213. DOI: 10.1006/icar.1998.6072

Conference Abstracts

A. Lucchetti, G. Cremonese, P. Cambianica, **I. Daubar**, A. S. McEwen and C. Re (2015) Numerical modelling and ejecta distribution analysis of a martian fresh crater. AGU Fall meeting, abstract 64353.

N. C. Schmerr, M. E. Banks, **I. Daubar** (2015) Recent meteoroid impacts on Mars: seismic signal predictions.

Geological Society of America annual meeting, abstract 100-5.

Daubar, I. J., A. S. McEwen, S. Byrne, M. Kreslavsky, L. Saper, M. R. Kennedy, and M. P. Golombek (2015) Current State of Knowledge of Modern Martian Cratering. Workshop on Issues in Crater Studies and the Dating of Planetary Surfaces, abstract 9007. *Invited plenary talk*.

Landis, M. E., S. Byrne, **I. J. Daubar**, K. E. Herkenhoff, and C. M. Dundas (2015) Impact Craters and Surface Age of the North Polar Layered Deposits, Mars. Workshop on Issues in Crater Studies and the Dating of Planetary Surfaces, abstract 9040.

G. Cremonese, P. Borin, P. Cambianica, A. Lucchetti, **I. Daubar**, A. S. McEwen and F. Marzari (2015) New impactor flux estimate on Mars and its application on fresh craters. Bridging the Gap III: Impact Cratering in Nature, Experiments, and Modeling conference, abstract 1044.

Daubar, I. J., M. P. Golombek, A. S. McEwen, S. Byrne, M. Kreslavsky, N. C. Schmerr, M. E. Banks, P. Lognonné, T. Kawamura, and F. Karakostas (2015) Measurement of the Current Martian Cratering Size Frequency Distribution, Predictions for and Expected Improvements from InSight. Lunar and Planetary Science Conference 46, abstract #2468.

Daubar, I. J., A. S. McEwen, and M. P. Golombek (2015) Albedo Changes at Martian Landing Sites. Lunar and Planetary Science Conference 46, abstract #2225.

McEwen, A., **I. Daubar**, B. Ivanov, J. Oberst, R. Malhotra, Y. JeongAhn, and S. Byrne (2015) Current Impact Rate on Earth, Moon, and Mars. Lunar and Planetary Science Conference 46, abstract #1854.

Banks, M.E., **I.J. Daubar**, N. C. Schmerr, and M. P. Golombek (2015) Predicted Seismic Signatures of Recent Dated Martian Impact Events: Implications for the Insight Lander. Lunar and Planetary Science Conference 46, abstract #2679.

Milazzo, M. P., T. Stone, J. Heynssens, P. Flikkema, **I. Daubar**, A. Springmann (2015) Naaki: A Twin Cubesat Mission to the Moon. Lunar and Planetary Science Conference 46, abstract #2875.

Grott, M., A.C. Plesa, **I. Daubar**, A. C. Plesa, I. Daubar, T. Spohn, and S. Smrekar (2015) Retrieving the Martian Planetary Heat Flow from Measurements at Shallow Depth. Lunar and Planetary Science Conference 46, abstract #1374.

Landis, M.E., S. Byrne, **I.J. Daubar**, K. E. Herkenhoff, and C. M. Dundas (2015) Reinterpreting the Impact Craters of the North Polar Layered Deposits, Mars. Lunar and Planetary Science Conference 46, abstract #1294.

Landis, M. E., S. Byrne, **I. J. Daubar**, K. E. Herkenhoff, and C. M. Dundas (2014) Reinterpreting the Impact Craters of the North Polar Layered Deposits, Mars. AAS/Division for Planetary Sciences Meeting Abstracts 46, #203.07.

Mattson, S., A. S. McEwen, N. Bridges, S. Byrne, M. Chojnacki, **I. Daubar**, C. Dundas, and P. Russell (2014) Active Mars Revealed through HiRISE DTMs and Orthoimages. AAS/Division for Planetary Sciences Meeting Abstracts 46, #413.04.

Daubar, I. J., A. S. McEwen, S. Byrne, M. Kreslavsky, L. Saper, and M. R. Kennedy (2014). New Dated Craters on Mars: The Current Cratering Rate. Geological Society of America annual meeting, abstract 248916. *Invited speaker*.

Daubar, I. J., A. S. McEwen, S. Byrne, M. Kreslavsky, L. Saper, and M. R. Kennedy (2014). New Dated Impacts on Mars and the Current Cratering Rate. 77th Annual Meeting of the Meteoritical Society, abstract 5095.

Daubar, I. J., A. S. McEwen, S. Byrne, M. Kreslavsky, L. Saper, and M. R. Kennedy (2014) New dated impacts on Mars and an updated current cratering rate. Eighth International Conference on Mars, abstract 1007.

Saikia, S. J., **I. J. Daubar**, E. Jens, M. Bruck Syal, M. Bunte, C. Cook, E. Decrossas, A. Dove, D. Farnocchia, J. Jonsson, J. M. Mihaly, A. Ollila, M. C. Palucis, M. J. Poston, G. Vardaxis, M. S. Veto, C. J. Budney, K. Mitchell, and G. S. Orton (2014) MUSEings on Uranus: Exploration of the Ice-Giant. 11th International Planetary Probe Workshop, abstract 8074.

Thompson, S. D., Z. R. Bowles, R.Z. Povilaitis, **I. J. Daubar**, M. S. Robinson, and J. Oberst (2014) Discovery Of Impact Craters Formed During LRO Operations. ISPRS Technical Commission IV Symposium on Geospatial Databases and Location Based Services, Suzhou, China.

Daubar, I. J., P. E. Geissler, A. S. McEwen, C. M. Dundas, S. Byrne, P. R. Russell, and G. D. Bart (2014) Changes in New Impact Blast Zones Over Three Martian Years Lunar and Planetary Institute Science Conference Abstracts 45.

Saikia, S. J., **I. J. Daubar**, M. B. Syal, M. Bunte, C. Cook, E. Decrossas, A. Dove, D. Farnocchia, J. Jonsson, J. M. Mihaly, A. Ollila, M. C. Palucis, M. J. Poston, G. Vardaxis, M. S. Veto, C. J. Budney, and K. Mitchell (2014) A New Frontiers Mission Concept for the Exploration of Uranus. Lunar and Planetary Institute Science Conference Abstracts 45.

Keske, A. L., A. S. McEwen, C. W. Hamilton, and **I. J. Daubar** (2014) Distinguishing Volcanic and Fluvial Activity in Mangala Valles, Mars Via Geomorphic Mapping. Lunar and Planetary Institute Science Conference Abstracts 45.

Landis, M. E., S. Byrne, and **I. J. Daubar** (2014) Reinterpreting the Impact Craters of the North Polar Layered Deposits, Mars. Lunar and Planetary Institute Science Conference Abstracts 45.

Bart, G. D., **I. J. Daubar**, and P. L. Spinolo (2014) Dependence of Martian Airblast Diameter on Crater Diameter. Lunar and Planetary Institute Science Conference Abstracts 45.

Thompson, S. D., Z. R. Bowles, R.Z. Povilaitis, **I. J. Daubar**, M. S. Robinson (2014) Recent Impacts on the Moon. Lunar and Planetary Institute Science Conference Abstracts 45.

Daubar, I. J. (2013) Designing a mission to Uranus at the NASA Planetary Science Summer School. Lunar and Planetary Laboratory Conference Abstracts.

Daubar, I. J., A. S. McEwen, and S. Byrne (2013) How Accurately can we Date Recent Climate Change on Mars? Lunar and Planetary Institute Science Conference Abstracts 44, 2977.

Keske, A. L., A. S. McEwen, and **I. J. Daubar** (2013) Distinguishing Volcanic and Fluvial Activity in Mangala Valles, Mars via Geomorphic Mapping. Lunar and Planetary Institute Science Conference Abstracts 44, 2356.

Daubar, I. J., P. E. Geissler, A. S. McEwen, C. M. Dundas, and S. Byrne (2012) Repeat Observations of New Impact Sites on Mars: Changes in Blast Zones. AGU Fall Meeting Abstracts.

Daubar, I. J., A. S. McEwen, S. Byrne, M. Kennedy, and B. Ivanov (2012) Current Impact Flux at Mars. 7th European Strategic Meteor Workshop: The Meteoroid Flux in the Martian Satellite System - Models, Predictions, Observational Data, and Implications, Moscow, Russia.

Daubar, I. J., A. S. McEwen, S. Byrne, and C. Dundas (2012) Ongoing Impact Events on Mars: Implications for Science and Exploration. Concepts and Approaches for Mars Exploration, abstract 4301.

Byrne, S., C. M. Dundas, A. S. McEwen, J. W. Holt, N. E. Putzig, M. T. Mellon, and **I. J. Daubar** (2012) Exploration of Mid-Latitude Ice on Mars. Concepts and Approaches for Mars Exploration, abstract 4283.

Daubar, I. J., A. S. McEwen, S. Byrne, and M. R. Kennedy (2012) Seasonal Variation in Current Martian Impact Rate. Lunar and Planetary Institute Science Conference Abstracts 43, 2740.

Russell, P. S., J. A. Grant, K. K. Williams, L. M. Carter, W. B. Garry, G. Morgan, **I. Daubar**, and D. B. J. Bussey

(2012) Ground Penetrating Radar Field Studies of Lunar-Analog Geologic Settings: Impact Ejecta and Volcanic Materials. Lunar and Planetary Institute Science Conference Abstracts 43, 2604.

Daubar, I. J., A. S. McEwen, S. Byrne, and M. Kennedy (2011) The Current Martian Crater Production Function. EPSC-DPS Joint Meeting, 1649.

Byrne, S., C. M. Dundas, M. R. Kennedy, M. T. Mellon, **I. J. Daubar**, S. C. Cull, and A. S. McEwen (2011) Probing for Ground Ice on Mars with Impact Craters. EPSC-DPS Joint Meeting, 620.

Daubar, I. J., A. S. McEwen, S. Byrne, C. M. Dundas, A. L. Keska, G. L. Amaya, M. Kennedy, and M. S. Robinson (2011) New Craters on Mars and the Moon. Lunar and Planetary Institute Science Conference Abstracts 42, 2232.

Geissler, P. E., **I. J. Daubar**, A. S. McEwen, N. T. Bridges, and C. M. Dundas (2010) Eolian Degradation of Young Martian Craters. Lunar and Planetary Institute Science Conference Abstracts 41, 2591.

Daubar, I. J., A. S. McEwen, S. Byrne, C. M. Dundas, M. Kennedy, and B. A. Ivanov (2010) The Current Martian Cratering Rate. Lunar and Planetary Institute Science Conference Abstracts 41, 1978.

Daubar, I. J., S. Byrne, A. S. McEwen, and M. Kennedy (2010) New Martian Impact Events: Effects on Atmospheric Breakup on Statistics. 1st Planetary Cratering Consortium, Flagstaff, AZ.

Daubar, I. J. and A. S. McEwen (2009) Depth to Diameter Ratios of New Martian Craters from HiRISE Images. AAS/Division for Planetary Sciences Meeting Abstracts #41 41, #35.8.

Daubar, I. J. and A. S. McEwen (2009) Depth to Diameter Ratios of Recent Primary Impact Craters on Mars. Lunar and Planetary Institute Science Conference Abstracts 40, 2419.

Tampari, L. K., D. S. Bass, B. Cantor, **I. J. Daubar**, D. Fisher, K. Fujii, H. P. Gunnlaugsson, T. L. Hudson, D. Kass, A. Kleinboehl, M. Lemmon, M. Mellon, A. Pankine, M. L. Searls, F. Seelos, S. Smrekar, P. Taylor, C. von Holstein-Rathlou, J. Whiteway, and M. Wolff (2009) Phoenix and MRO Coordinated Atmospheric Science. Lunar and Planetary Institute Science Conference Abstracts 40, 2000.

Byrne, S., C. M. Dundas, M. R. Kennedy, M. Mellon, D. Shean, **I. J. Daubar**, S. Cull, K. D. Seelos, S. L. Murchie, B. Cantor, R. E. Arvidson, K. Edgett, A. S. McEwen, T. Harrison, L. Posiolova, F. P. Seelos, HiRISE Team, Ctx Team, and CRISM Team (2009) Excavation of Subsurface Ice on Mars by New Impact Craters. Lunar and Planetary Institute Science Conference Abstracts 40, 1831.

Tampari, L. K., D. Bass, B. Cantor, **I. J. Daubar**, D. Fisher, K. Fujii, H. P. Gunnlaugsson, T. Hudson, D. Kass, A. Kleinboehl, M. Lemmon, M. Mellon, A. Pankine, N. Renno, M. Searls, F. Seelos, P. Taylor, C. von Holstein-Rathlou, J. Whiteway, and M. Wolff (2008) Phoenix and Mars Reconnaissance Orbiter Coordinated Atmospheric Science. AGU Fall Meeting Abstracts 3.

Eliason, E. M., B. Castalia, Y. Espinoza, A. Fennema, R. Heyd, R. Leis, G. McArthur, A. McEwen, M. Milazzo, T. Motazedian, C. Schaller, and **I. J. Daubar** (2007) HiRISE Data Processing and Standard Data Products. Lunar and Planetary Institute Science Conference Abstracts 38, 2037.

Daubar, I. J. and D. A. Kring (2001) Impact-Induced Liquid-Water Environments on Mars. Bulletin of the American Astronomical Society 33, 1104.

Daubar, I. J. and D. A. Kring (2001) Impact-induced Hydrothermal Systems: Heat Sources and Lifetimes. Lunar and Planetary Institute Science Conference Abstracts 32, 1727.

Sullivan, R., **I. J. Daubar**, L. Fenton, M. Malin, and J. Veverka (1999) Mass-Movement Considerations for Dark Slope Streaks Imaged by the Mars Orbiter Camera. Lunar and Planetary Institute Science Conference Abstracts 30, 1809.

Salter, C. J., T. Ghosh, A. Alejandro, M. C. Aller, Y. Cordero, **I. Daubar**, S. DeDeo, D. L. Kaplan, D. D. Kocevski, F. A. Mercado, B. D. Oppenheimer, C. Salmeron, and J. Eder (1998) Single-Epoch Measurements of Broadband Radio Continuum Spectra. Bulletin of the American Astronomical Society 30, #107.22.

Daubar, I. J., M. C. Nolan, D. B. Campbell, A. Crespo, J. K. Harmon, A. A. Hine, P. J. Perillat, G. Black, S. J. Ostro, L. A. M. Benner, R. F. Jurgens, M. A. Slade, J. D. Giorgini, and J. F. Chandler (1998) First Results from the Arecibo Observatory Planetary Radar. Bulletin of the American Astronomical Society 30, 1390.

Oppenheimer, B. D. and **I. J. Daubar** (1998) A Selected Survey of Main-Line OH/IR Stars with the Arecibo Dish. Bulletin of the American Astronomical Society 30, 1349.

Nolan, M. C., J. K. Harmon, A. A. Hine, D. B. Campbell, P. J. Perillat, G. Black, **I. J. Daubar**, S. J. Ostro, L. A. M. Benner, R. F. Jurgens, M. A. Slade, J. D. Giorgini, and J. F. Chandler (1998) First Results from the Arecibo Observatory Planetary Radar. Bulletin of the American Astronomical Society 30, 1036.

Daubar, I. J., M. E. Ockert-Bell, J. A. Burns, J. F. Veverka, P. Thomas, M. Belton, K. Klaasen, and Galileo Imaging Team (1997) Galileo SAW Jupiter's Rings, Too. Bulletin of the American Astronomical Society 29, 1000.

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